Claim 1 has been amended herein in order to more particularly define the claimed invention.

Claims 3 and 4, and the paragraph beginning on page 12, line 3 of the specification have been amended herein to incorporate the correct chemical name for ECCI 7091RV in a bonafide attempt to place the application in condition for allowance. Support for these amendments is implicit within the disclosure of the specification, as evidenced by the STN International printout indicating the chemical nomenclature for Calgon CP 7091RV attached hereto as Appendix "A." No new matter has been added by these amendments.

Objections Under 37 C.F.R. § 1.84(p)(4)

In an objection pursuant to 37 C.F.R. § 1.84(p)(4), the drawings were objected to for allegedly using reference character "35" to represent both surfaces of the dissipative layer and also the internal layer of the dissipative layer. For the reasons set forth below, Applicants respectfully traverse the Examiner's objection.

37 C.F.R. § 1.84(p)(4) states that the same part of an invention appearing in more than one view of the drawing must always be designated by the same reference character, and the same reference character must never be used to designate different parts. Contrary to the Examiner's objection, reference character "35" does not represent different parts of the present invention but rather designates different aspects of the same part, namely the homogenous dissipative layer. To that end, as recited in Claim of the instant application, the dissipative layer is comprised of a homogenous mixture of a paper forming substance and a static dissipative substance. Therefore, the reference character "35" can adequately represent the entirety of the dissipative layer, including both surfaces as well as the internal section of the dissipative layer. Therefore, Applicants believe that the present objections to the drawings pursuant to 37 C.F.R. § 1.84(p)(4) are in error and respectfully request that these objections be withdrawn.

Rejections Under 35 U.S.C. § 112

The Office Action has rejected original claims 3 and 4 under 35 U.S.C. § 112, second paragraph, as allegedly being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. While Applicants do not concede the Examiner's posit ion, it is respectfully submitted that the amendments to Claims 3 and 4 as submitted herewith obviate any outstanding rejections pursuant to 35 U.S.C. § 112, second paragraph, and therefore said rejections should be withdrawn.

Rejections under 35 U.S.C. § 102(b)

The office action has rejected Claim 1, and certain claims depending therefrom under 35 U.S.C. § 102(b) as allegedly being anticipated by each of U.S. Patent Nos. 3,682,696 (hereinafter the '696 patent); 3,830,655 (hereinafter the '655 patent); 3,902,959 (hereinafter the '959 patent); 4,806,410 (hereinafter the '410 patent); and 5,089,327 (hereinafter the '327 patent).

It is well established that in order for a prior art reference to be anticipatory pursuant to 35 U.S.C. § 102(b) it must teach each and every feature of the claimed invention. As set forth below, each of the above-mentioned references relied upon by the Examiner fails to teach each and every feature of the invention recited in Claim 1 of the instant application. Therefore, any rejections pursuant to 35 U.S.C. § 102(b) in view of these references should be withdrawn.

As amended herein, Claim 1 of the instant application recites a dissipative layer for use in paper-containing products, comprising, in part, at least one paper-forming substance and an effective amount of at least one static dissipative substance wherein the static dissipative substance is **homogenously admixed** with the paper-forming substance.

Moreover, as discussed on page 12, lines 22-25 of the specification, the use of a homogenous mixture allows one to achieve certain desired properties, e.g., a volume resistivity quality in

environments having a low relative humidity. In contrast to Claim 1, as set forth above, each of the '696, '655, '959, '410 and '327 patents fails to teach a dissipative layer comprised of a homogenous mixture of a paper-forming substance and a static dissipative substance. Moreover, there certainly is no teaching in these references that a homogenous mixture can be used to achieve desired properties.

First, the '697 patent teaches a method for producing antistatic paper which comprises either adding a static electricity preventive agent to the pulp in the paper manufacturing process or admixing the static electricity preventive agent with a paper coating material during a paper coating process. Further, the '696 patent also teaches that the method is performed so that the static electricity preventive agent adheres to the inside or surface of the paper uniformly. In contrast to the instant claims, the '696 patent makes no mention of a dissipative layer comprised of a **homogenous mixture** of a paper forming substance and a static dissipative substance. Therefore, the '696 patent fails to teach each and every feature recited in Claim 1 and those claims depending therefrom and, as such, any rejection pursuant to 35 U.S.C. § 102(b) based thereon should be withdrawn.

The '655 patent teaches an electrically conductive paper that is made by **coating or impregnating** paper with a polymer containing at least 70 percent quaternised dialkylamino
methylene acrylamide or methacrylamide groups, and then curing the polymer. In contrast to
Claim 1 of the instant application, the '655 patent only teaches an electrically conductive
paper that is formed by coating or impregnating paper and then curing the paper, whereas
Claim 1 recites a dissipative layer comprised of a homogenous admixture of a paper forming
substance and a static dissipative substance. The '655 patent fails to teach a homogenous
mixture of a paper forming substance and a static dissipative substance and therefore fails to
teach each and every feature of the instant claims. As such, any rejections pursuant to 35
U.S.C. § 102(b) based thereon should be withdrawn.

The '959 patent teaches code paper, suitable for use for punch-coding purposes, that is produced by a process that includes sizing premanufactured paper with a surface applied size

treatment. Once again, in contrast to Claim 1 of the instant invention, the '959 patent fails to teach a dissipative layer comprised of a **homogenous mixture** of a paper forming substance and a static dissipative substance. Therefore, the '959 patent fails to teach each and every feature recited in Claim 1 and those claims depending therefrom and, as such, any rejection pursuant to 35 U.S.C. § 102(b) based thereon should be withdrawn.

The '410 patent teaches a process for the production of antistatic dissipative papers wherein the papers are produced either by the application of a liquid antistatic material to a still wet porous web prior to completion of the drying of the paper or, alternatively, by the impregnating a web of dry paper with a liquid antistatic material and then drying the treated web. In both instances, the '410 patent only teaches an antistatic dissipative paper that comprises a coating or otherwise treating a preformed web. Moreover, in contrast to Claim 1 of the instant invention, the '410 patent makes no mention of a dissipative layer comprised of a **homogenous mixture** of a paper forming substance and a static dissipative substance. Therefore, the '410 patent fails to teach each and every feature recited in Claim 1 and those claims depending therefrom and, as such, any rejection pursuant to 35 U.S.C. § 102(b) based thereon should be withdrawn.

Lastly, the '327 patent teaches an anti-static paper sheet for use in high pressure laminates, the sheet being treated with a wet strength resin and saturated with a water soluble polycationic quaternary ammonium polymer. Similar to the previously described references, the '327 Patent only describes treating a previously manufactured sheet material. To that end, in contrast to the invention recited in Claim 1 of the instant application, the '327 patent makes no mention of a dissipative layer comprised of a **homogenous mixture** of a paper forming substance and a static dissipative substance. Therefore, the '327 patent fails to teach each and every feature recited in Claim 1, and those claims depending therefrom, and, as such, any rejection pursuant to 35 U.S.C. § 102(b) based thereon should be withdrawn.

Rejections Under 35 U.S.C. § 103(a)

The Office Action has further rejected Claim 1 of the instant application and certain claims depending therefrom under 35 U.S.C. § 103(a) as allegedly being obvious in view of the '410 patent and/or the '696 patent.

It is equally well established that in order to establish a *prima facie* case of obviousness pursuant to 35 U.S.C. § 103(a), the prior art must teach, or at least suggest, the claimed invention as a whole. Moreover, there must be adequate motivation and a reasonable expectation of success to undertake the modifications proposed in the rejection. As set forth below, it is respectfully submitted that none of the references relied upon by the Examiner in the instant office action, alone or in combination, teach or at least suggest, the claimed invention as a whole. Moreover, none of these references provide the adequate motivation and a reasonable expectation of success to undertake the modifications proposed in the rejection.

As described in detail above, none of the '696, '655, '959, '410 and '327 patents teaches or even suggests a dissipative layer comprised of a homogenous mixture of a paper forming substance and a static dissipative substance. Moreover, none of these references teaches or suggests that a homogenous mixture can be used to achieve certain desired properties. In addition, the combination of any two or more of these references similarly fails to provide that adequate motivation to arrive at the dissipative layer comprising a homogenous mixture of a paper forming substance and a static dissipative substance as recited in Claim 1 of the instant invention. Therefore, it is respectfully submitted that the Office Action has failed to establish a *prima facie* case of obviousness pursuant to 35 U.S.C. § 103(a) and, as such, the outstanding obviousness rejections in view of these references should be withdrawn.

CONLCUSION

In view of the Amendments and Remarks set out above, it is respectfully asserted that the rejections set forth in the Office Action of November 29, 2002 have been overcome and

ATTORNEY DOCKET NO. 11114.0001U1 SERIAL NO. 09/850,368

that the application is in condition for allowance. Therefore, Applicants respectfully seek notification of same.

A credit card payment authorization form in the amount of \$465.00 is enclosed for the Three-Month Extension of Time. No additional fee is believed due; however, the Commissioner is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 14-0629.

Respectfully submitted,

NEEDLE & ROSENBERG, P.C.

Brian C. Meadows

Registration No. 50,848

NEEDLE & ROSENBERG, P.C. Customer Number 23859 (404) 688-0770

(404) 688-9880 (fax)

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Brian C. Meadows, Registration No. 50,848-

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NEWS
        Apr 09
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                 Federal Research in Progress (FEDRIP) now available
NEWS
         Jun 03
                 New e-mail delivery for search results now available
NEWS 10
        Jun 10
                 MEDLINE Reload
NEWS 11
        Jun 10
                 PCTFULL has been reloaded
NEWS 12
        Jul 02
                 FOREGE no longer contains STANDARDS file segment
NEWS 13
        Jul 22
                 USAN to be reloaded July 28, 2002;
                 saved answer sets no longer valid
         Jul 29
NEWS 14
                 Enhanced polymer searching in REGISTRY
NEWS 15
         Jul 30
                 NETFIRST to be removed from STN
NEWS 16
         Aug 08
                 CANCERLIT reload
NEWS 17
         Aug 08
                 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18
         Aug 08
                 NTIS has been reloaded and enhanced
NEWS 19
         Aug 19
                 Aquatic Toxicity Information Retrieval (AQUIRE)
                 now available on STN
NEWS 20
         Aug 19
                 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21
         Aug 19
                 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22
         Aug 26
                 Sequence searching in REGISTRY enhanced
NEWS 23
         Sep 03
                 JAPIO has been reloaded and enhanced
NEWS 24
         Sep 16
                Experimental properties added to the REGISTRY file
NEWS 25
         Sep 16
                CA Section Thesaurus available in CAPLUS and CA
NEWS 26
         Oct 01
                CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27
         Oct 21
                EVENTLINE has been reloaded
NEWS 28
        Oct 24
                BEILSTEIN adds new search fields
NEWS 29
        Oct 24
                Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 30
        Oct 25
                MEDLINE SDI run of October 8, 2002
NEWS 31
        Nov 18 DKILIT has been renamed APOLLIT
NEWS 32
        Nov 25
                More calculated properties added to REGISTRY
NEWS 33
        Dec 02
                TIBKAT will be removed from STN
NEWS 34
        Dec 04
                CSA files on STN
NEWS 35
        Dec 17
                PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36
        Dec 17
                TOXCENTER enhanced with additional content
NEWS 37
        Dec 17
                Adis Clinical Trials Insight now available on STN
NEWS 38
        Dec 30
                ISMEC no longer available
NEWS 39
        Jan 13
                Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 40
        Jan 21
                NUTRACEUT offering one free connect hour in February 2003
NEWS 41
         Jan 21
                PHARMAML offering one free connect hour in February 2003
NEWS 42
        Jan 29
                Simultaneous left and right truncation added to COMPENDEX,
                 ENERGY, INSPEC
NEWS 43
        Feb 13
                CANCERLIT is no longer being updated
NEWS 44
        Feb 24
                METADEX enhancements
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NEWS 46 Feb 24 TEMA now available on STN

NEWS 47 Feb 26 NTIS now allows simultaneous left and right truncation

NEWS 48 Feb 26 PCTFULL now contains images

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,

CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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2954 CP

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(CP(W)7091)

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ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
L1
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RN
     2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
     N-(1,1-dimethyl-3-oxobutyl)-2-propenamide (9CI)
                                                      (CA INDEX NAME)
OTHER CA INDEX NAMES:
     2-Propenamide, N-(1,1-dimethyl-3-oxobutyl)-, polymer with
     N, N-dimethyl-N-2-propenyl-2-propen-1-aminium chloride (9CI)
CN
     Acrylamide, N-(1,1-dimethyl-3-oxobutyl)-, polymer with
     diallyldimethylammonium chloride (8CI)
     Ammonium, diallyldimethyl-, chloride, polymer with N-(1,1-dimethyl-3-
CN
     oxobutyl)acrylamide (8CI)
OTHER NAMES:
CN
     Calgon 7091
CN
     Calgon CP 7091
CN
     Calgon CP 7091RV
CN
     CP 7091RV
CN
     Diacetone acrylamide-diallyldimethylammonium chloride copolymer
CN
     Diacetone acrylamide-diallyldimethylammonium chloride polymer
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CN
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PCT
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LC
                  CA, CAPLUS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, USPATFULL
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         7398-69-8 (48042-45-1)
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$$\begin{array}{c} \text{Me} \\ \mid \\ \downarrow \\ \text{H}_2\text{C} \end{array} = \text{CH} - \text{CH}_2 - \text{N} \longrightarrow \text{CH}_2 - \text{CH} \Longrightarrow \text{CH}_2 \\ \mid \\ \text{Me} \end{array}$$

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CRN 2873-97-4 CMF C9 H15 N O2

- 19 REFERENCES IN FILE CA (1962 TO DATE)
- 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 19 REFERENCES IN FILE CAPLUS (1962 TO DATE)